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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/507,050	09/08/2004	Gunnar Rydneil	P16558-US2	8785

27045 7590 01/26/2007  
ERICSSON INC.  
6300 LEGACY DRIVE  
M/S EVR 1-C-11  
PLANO, TX 75024

EXAMINER
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PEREZ, ANGELICA

ART UNIT	PAPER NUMBER
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2618

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

# Office Action Summary

Application No.

10/507,050

Applicant(s)

RYDNELL ET AL.

Examiner

Perez M. Angelica

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 08 September 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 4-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 4-6 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 September 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☒ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Response to Arguments*

1. Applicant's arguments, see remarks, filed October 30, 2006, with respect to the rejection(s) of claim(s) 4-6 under Haverinen and Immonen have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Henry.

### *Claim Rejections - 35 USC § 112*

2. Independent claim 4 as well as dependent claims 5-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Protocol 802.11i is indefinite. Protocols change with time, new changes, releases or versions change the scope of the invention in claims, which it is inappropriate. In addition, if the standard/protocol changes over time, the claims might not longer be supported by the disclosure. Thus, it is necessary to include in the claims the specific release or version to which it refers.

Regarding protocol 802.11x, the specifications do not describe what the term x means at the end of 802.11, therefore, it is indefinite. For purposes of examination, the examiner will consider x as variants of the protocol. E.g., 801.11a, 801.11b, etc..

The examiner is not sure as to what the applicant means by a "802.11i wireless station", the 802.11i is a "security mechanisms for wireless networks. For purpose of examination, 802.11i is considered as a device in a WLAN.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 4 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henry (Henry et al.; Pub. No.: US 2003/0,172,144 A1) in view of Immonen (Immonen et al.; US Patent No.: 7,010,305 B2).

Regarding claim 4, Henry teaches of wireless access point (AP) operative to perform authentication for both legacy 802.11x and 802.11i wireless stations (paragraph 7), where: if an 802.11i wireless station is encountered by the AP, filtering is performed until a 802.11i association and authentication is completed (paragraphs 36-37 and 48).

Henry does not specifically teach where if a legacy 802.11x wireless station is encountered by the AP, allowing the wireless station to initiate a login procedure with a Public Access Control gateway (PAC); and where if the 802.11x wireless station is not authenticated by the PAC, filter all messages from the wireless station.

In related art concerning a method for assigning values of service attributes to transmissions, radio access networks and network elements, Immonen teaches where if a legacy 802.11x wireless station is encountered by the AP, allowing the wireless station to initiate a login procedure with a Public Access Control gateway (PAC) (columns 8 and 9, lines 62-67 and 1-10, respectively; column 12, lines 12-17 and

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column 13, line 43-46), and, if the 802.11x wireless station is not authenticated by the PAC; filter all messages from the wireless station (columns 11, 12 and 13, lines 49-67, 12-17, 36-60 and 2-8, respectively).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Henry's access control method with Immonen's logging with a PAC and filtering procedures in order to maintain flow control of authorized users, as taught by Immonen.

Regarding claim 6, Henry and Immonen teach all the limitations according to claim 5. Henry further teaches where the AP waits for a message from the PAC indicative of successful authorization of the legacy 802.11x wireless station and, once received, allows traffic to and from the legacy 802.11x wireless station without filtering (Paragraphs 36-37 and 48; where once the device is authorized, authenticated, it does not require filtering).

5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Henry in view of Immonen and further in view of Haverinen (Haverinen et al.; US Pub. No.: 2002/0,012,433 A1).

Regarding claim 5, Henry and Immonen teach all the limitations according to claim 4.

Immonen further teaches where if a legacy 802.11x wireless station is encountered, in order to accomplish login, a PAC timer is set and traffic is forwarded by the AP to and from the PAC using encapsulation (column 12, lines 36-60), and transmitting a message from the AP to the PAC indicating that the wireless station

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needs authentication (column 12, lines 36-60; where it is one of the protocols procedures).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Henry's and Immonen access control method with Immonen's further teachings about authentication and encapsulation in order to maintain control of authorized users, as taught by Immonen.

Henry and Immonen do not specifically teach of a PAC operative to transmit a web based login page to the legacy 802.11x wireless station.

In related art concerning authentication in a packet data network, teaches of a PAC operative to transmit a web based login page to the legacy 802.11x wireless station (paragraph 165 and 174).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Henry and Immonen's access control method with Haverinen's web based login page as an "access network identifier", as taught by Haverinen.

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**Conclusion**

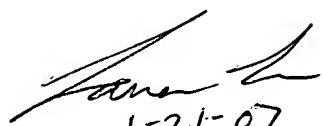
6. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Angelica Perez whose telephone number is 571-272-7885. The examiner can normally be reached on 6:00 a.m. - 2:00 p.m., Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571) 272-7882. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300 for regular communications and for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either the PAIR or Public PAIR. Status information for unpublished applications is available through the Private PAIR only. For more information about the pair system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). Information regarding Patent Application Information Retrieval (PAIR) system can be found at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2600's customer service number is 703-306-0377.

  
Angelica Perez  
Examiner

  
1-21-07  
LANA LE  
PRIMARY EXAMINER

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January 17, 2007